

**Trade and Industrial Education**  
**Course: Masonry I**  
**Course Code # 5735**  
**1 Credit**

**School Year** \_\_\_\_\_

**Term:** \_\_\_\_ **Fall** \_\_\_\_ **Spring**

<b>Student:</b>	<b>Grade:</b>
<b>Teacher:</b>	<b>School:</b>
<b>Number of Competencies in Course: 30</b>	
<b>Number of Competencies Mastered:</b>	
<b>Percent of Competencies Mastered:</b>	

**STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Cultivate leadership skills.			
1.2	Participate in SkillsUSA-VICA as an integral part of instruction.			
1.3	Assess situations within the school, community, and workplace and apply values to develop and select solutions.			
1.4	Demonstrate the ability to work cooperatively with others.			

**STANDARD 2.0: Students will take personal responsibility for the safety of themselves, their coworkers, and bystanders.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Demonstrate a positive attitude regarding safety practices and issues.			
2.2	Use and inspect personal protective equipment.			
2.3	Inspect, maintain, and employ safe operating procedures with tools and equipment, such as hand and power tools, ladders, scaffolding, and lifting equipment			
2.4	Continuously respond appropriately to potential hazards to self and others.			
2.5	Assumes responsibilities under HazCom (Hazard Communication) regulations.			
2.6	Performs in accordance with responsibilities, regulations, and company policies to protect coworkers and bystanders from hazards.			
2.7	Adheres to responsibilities, regulations, and company policies regarding reporting of accidents and observed hazards and regarding emergency response procedures.			
2.8	Demonstrate appropriate related safety procedures.			
2.9	Pass with 100 % accuracy a written examination relating to safety issues.			
2.10	Pass with 100% accuracy a performance examination relating to safety.			
2.11	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.			

**STANDARD 3.0: Students will interpret, lay out, and fabricate in conformance to construction drawings and written specifications.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Interpret dimensions and locations of components that are explicitly dimensioned in construction drawings and written specifications.			
3.2	Interpret plan and elevation views shown in construction drawings.			
3.3	Recognize and correctly interpret lines and symbols commonly used in construction drawings.			
3.4	Make layouts of locations and elevations of masonry structural elements and reinforcements.			

**STANDARD 4.0: Students will lay new masonry units around openings and in replacement situations.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Saw and cut masonry units.			
4.2	Lay-up jambs, lintels, and sills.			
4.3	Demonstrate the techniques used in toothing and patching various types of masonry.			

**STANDARD 5.0: Students will analyze the loads that act on reinforced masonry structures.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Analyze vertical loads on masonry structures.			
5.2	Analyze lateral loads on masonry structures.			
5.3	Analyze how masonry structures develop reaction to applied loads.			

**STANDARD 6.0: Students will modify masonry processes based on weather conditions.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Identify the weather conditions that affect masonry processes.			
6.2	Demonstrate changes to masonry processes to accommodate weather conditions.			

**STANDARD 7.0: Students will demonstrate bonding and reinforcement in masonry structural members.**

Learning Expectations		Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Demonstrate methods of providing bonding in wall structures.			
7.2	Demonstrate methods of providing tension and compression reinforcement in walls and columns.			
7.3	Demonstrate methods of providing shear reinforcement.			

Additional Comments \_\_\_\_\_